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# Efficiency of positive-feedback circuits in voltage converters based on the switch-controlled self-excited oscillators

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## Abstract

A voltage converter on the base of a switch-on transformer self-excited oscillator is described. A nonsaturated circuit of the current positive feedback is used in the converter. In the circuit of the voltage positive feedback is applied a separate saturated switch-on transformer. This converter is characterized by the high efficiency (97%) at the low voltage supply (12 V) and high reliability in a wide range of operation condition variation.

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